

=> d his

(FILE 'HOME' ENTERED AT 10:43:58 ON 13 SEP 2006)

FILE 'REGISTRY' ENTERED AT 10:44:09 ON 13 SEP 2006

L1 STRUCTURE UPLOADED

L2 2 S L1

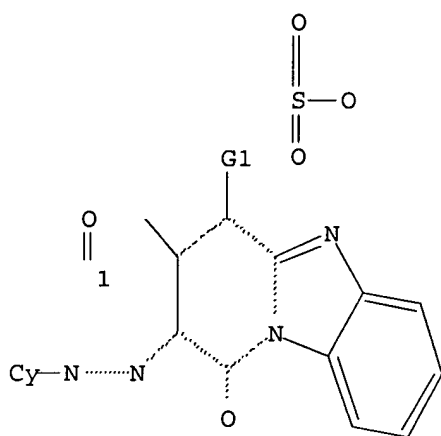
L3 109 S L1 FULL

FILE 'CAPLUS' ENTERED AT 10:45:18 ON 13 SEP 2006

L4 4 S L3

=> d que l4 stat

L1 STR



G1 CN,Hy, [@1]

Structure attributes must be viewed using STN Express query preparation.

L3 109 SEA FILE=REGISTRY SSS FUL L1

L4 4 SEA FILE=CAPLUS ABB=ON PLU=ON L3

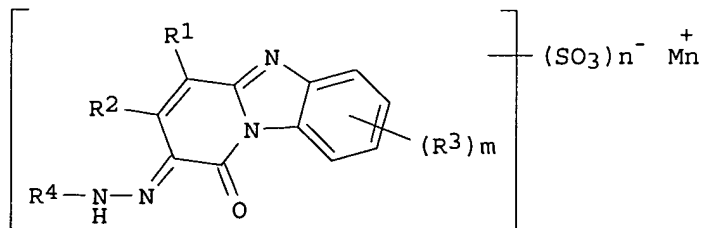
=> d 1-4 bib abs hitstr

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:493793 CAPLUS
 DN 141:55761
 TI Benzimidazole-pyridone-based azo dyes soluble in organic solvents
 IN Feiler, Leonhard; Raimann, Thomas; Eichenberger, Thomas; Huegin, Max
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 31 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004050768	A2	20040617	WO 2003-EP50898	20031126
	WO 2004050768	A3	20040812		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2505613	AA	20040617	CA 2003-2505613	20031126
	AU 2003298325	A1	20040623	AU 2003-298325	20031126
	EP 1570004	A2	20050907	EP 2003-796059	20031126
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003016989	A	20051025	BR 2003-16989	20031126
	CN 1720298	A	20060111	CN 2003-80105071	20031126
	JP 2006509068	T2	20060316	JP 2004-556335	20031126
	US 2006053571	A1	20060316	US 2005-537063	20050601
PRAI	CH 2002-2058	A	20021205		
	WO 2003-EP50898	W	20031126		
OS	MARPAT 141:55761				
GI					



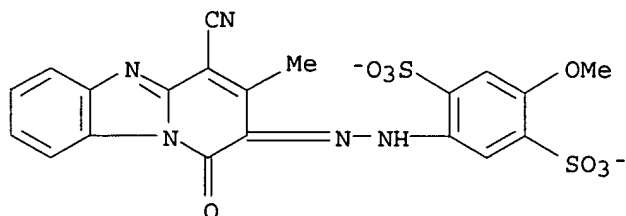
I

AB The azo dyes I (R1 = -CN, -COOR5, -CONR6R7, heterocyclic ring; R2 = (un)substituted alkyl, (un)substituted aryl, -CF3, -COOR5, -CONR6R7, -COR5; R3 = H, -SO3M, alkyl, alkoxy, alkylcarbonyl, -NO2, halogen; R4 = substituted aryl, substituted heteroaryl, aryl-N:N-aryl radical, heteroaryl-N:N-heteroaryl radical; R5 = H, alkyl, (un)substituted aryl; R6, R7 = H, alkyl, (un)substituted aryl; M+ = cation; m, n = 1, 2 or 3) are soluble in organic solvents and useful in production of colored plastics or polymeric color particles, and as printing inks, printing dyes, coating compns. and wood stains.

IT 704887-66-1 704887-67-2 704887-68-3
 704887-70-7 704887-72-9 704887-74-1
 704887-76-3 704887-78-5 704887-80-9
 704887-82-1 704887-84-3 704887-85-4D,
 bis[C12-14 primary amine (Primene 81)] salts 704887-86-5
 704887-87-6 704887-88-7 704887-89-8
 704887-91-2 704887-92-3 704887-94-5
 704887-96-7 704887-97-8 704887-98-9
 704887-99-0 704888-00-6 704888-01-7
 704888-02-8 704888-03-9 704888-04-0
 704888-05-1 704888-07-3 704888-08-4
 704888-09-5 704888-10-8 704888-12-0
 704888-13-1 704888-14-2 704888-16-4
 704888-18-6 704888-20-0 704888-22-2
 704888-23-3 704888-24-4 704888-26-6
 704888-27-7 704888-29-9 704916-76-7D,
 bis[C12-14 primary amine (Primene 81)] salts 704916-77-8D,
 bis[C12-14 primary amine (Primene 81)] salts 704916-78-9D,
 bis[C12-14 primary amine (Primene 81)] salts 704916-79-0D,
 [C12-14 primary amine (Primene 81)] salts 704916-80-3D,
 bis[C12-14 primary amine (Primene 81)] salts 704916-81-4D,
 bis[C12-14 primary amine (Primene 81)] salts 704916-82-5
 704916-83-6D, bis[C12-14 primary amine (Primene 81)] salts
 704916-84-7D, bis[C12-14 primary amine (Primene 81)] salts
 704916-85-8D, bis[C12-14 primary amine (Primene 81)] salts
 704916-86-9D, tris[C12-14 primary amine (Primene 81)] salts
 RL: TEM (Technical or engineered material use); USES (Uses)
 (benzimidazole-pyridone-based azo dyes soluble in organic solvents)
 RN 704887-66-1 CAPLUS
 CN 1-Butanaminium, N,N,N-tributyl-, salt with 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-methoxy-1,4-benzenedisulfonic acid (2:1) (9CI) (CA INDEX NAME)

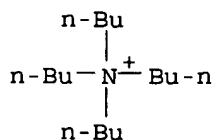
CM 1

CRN 704887-65-0
 CMF C20 H13 N5 O8 S2



CM 2

CRN 10549-76-5
 CMF C16 H36 N



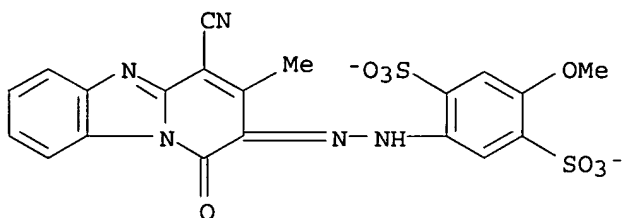
RN 704887-67-2 CAPLUS

CN 1-Hexadecanaminium, N,N,N-trimethyl-, salt with 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-methoxy-1,4-benzenedisulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-65-0

CMF C20 H13 N5 O8 S2



CM 2

CRN 6899-10-1

CMF C19 H42 N

$\text{Me}_3^+\text{N}-(\text{CH}_2)_{15}-\text{Me}$

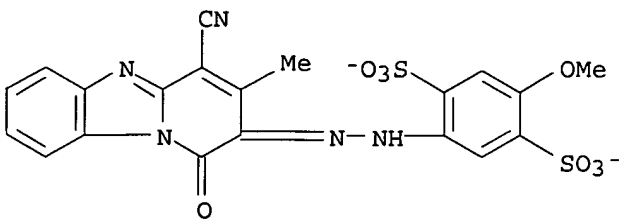
RN 704887-68-3 CAPLUS

CN 1-Decanaminium, N,N-dimethyl-, salt with 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-methoxy-1,4-benzenedisulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-65-0

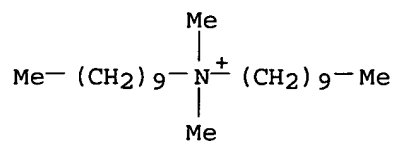
CMF C20 H13 N5 O8 S2



CM 2

CRN 20256-56-8

CMF C22 H48 N



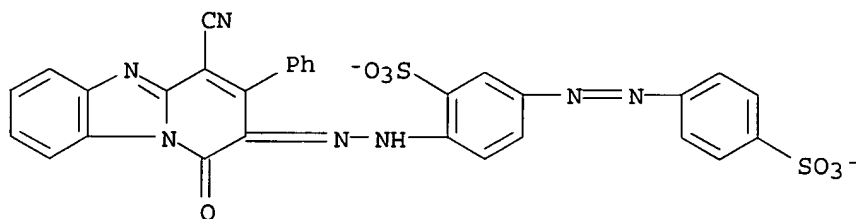
RN 704887-70-7 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 2-[(4-cyano-1-oxo-3-phenylpyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]benzenesulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-69-4

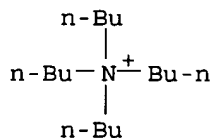
CMF C30 H17 N7 O7 S2



CM 2

CRN 10549-76-5

CMF C16 H36 N



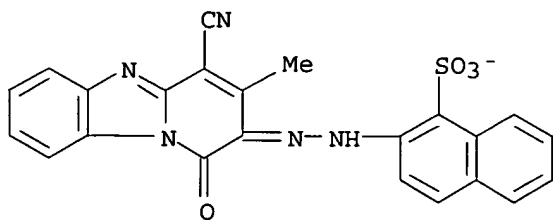
RN 704887-72-9 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-1-naphthalenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-71-8

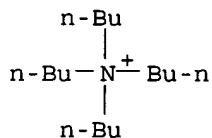
CMF C23 H14 N5 O4 S



CM 2

CRN 10549-76-5

CMF C16 H36 N



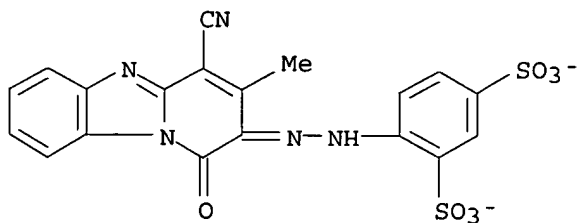
RN 704887-74-1 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 4-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-1,3-benzenedisulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-73-0

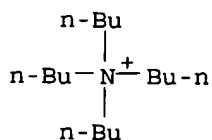
CMF C19 H11 N5 O7 S2



CM 2

CRN 10549-76-5

CMF C16 H36 N



RN 704887-76-3 CAPLUS

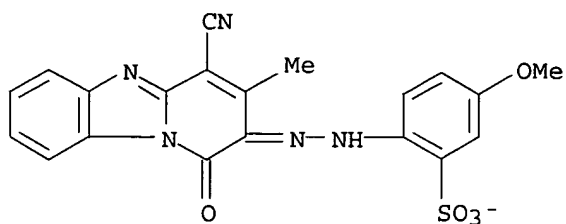
CN 1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 2-[(4-cyano-3-methyl-1-

oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-methoxybenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-75-2

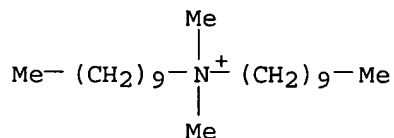
CMF C20 H14 N5 O5 S



CM 2

CRN 20256-56-8

CMF C22 H48 N



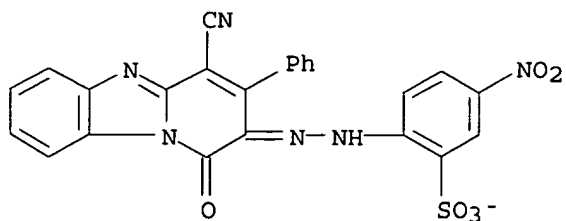
RN 704887-78-5 CAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 2-[(4-cyano-1-oxo-3-phenylpyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-nitrobenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-77-4

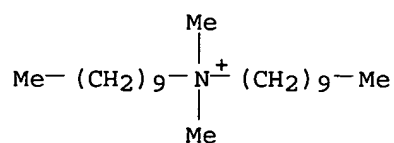
CMF C24 H13 N6 O6 S



CM 2

CRN 20256-56-8

CMF C22 H48 N



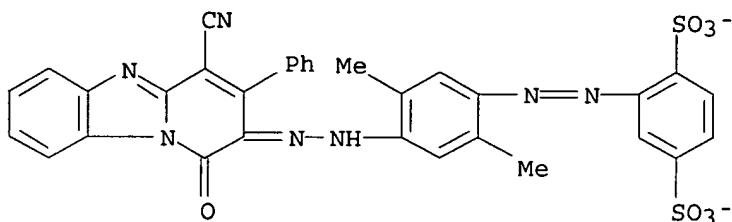
RN 704887-80-9 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 2-[[4-[(4-cyano-1-oxo-3-phenylpyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-2,5-dimethylphenyl]azo]-1,4-benzenedisulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-79-6

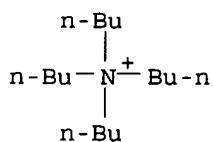
CMF C32 H21 N7 O7 S2



CM 2

CRN 10549-76-5

CMF C16 H36 N



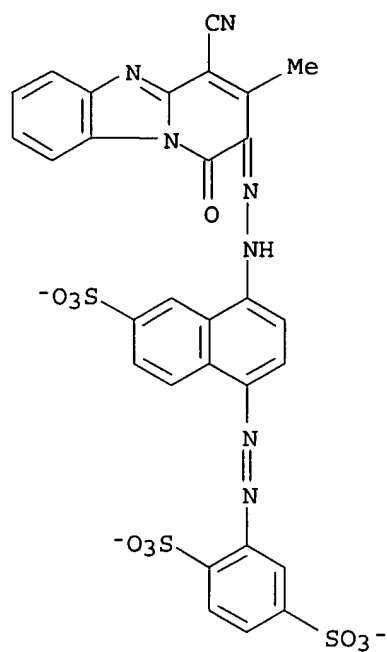
RN 704887-82-1 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 2-[[4-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-6-sulfo-1-naphthalenyl]azo]-1,4-benzenedisulfonic acid (3:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-81-0

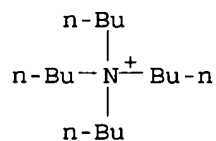
CMF C29 H16 N7 O10 S3



CM 2

CRN 10549-76-5

CMF C16 H36 N



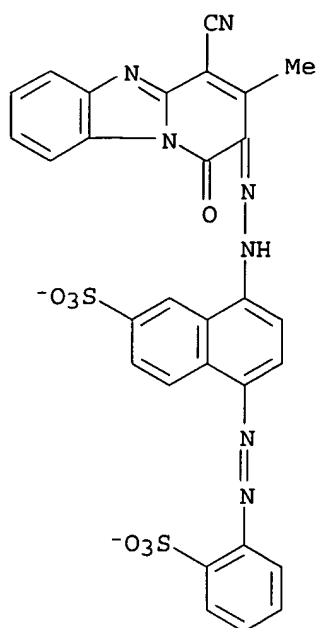
RN 704887-84-3 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 8-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(2-sulfophenyl)azo]-2-naphthalenesulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-83-2

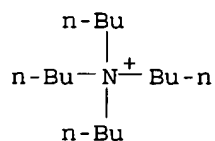
CMF C29 H17 N7 O7 S2



CM 2

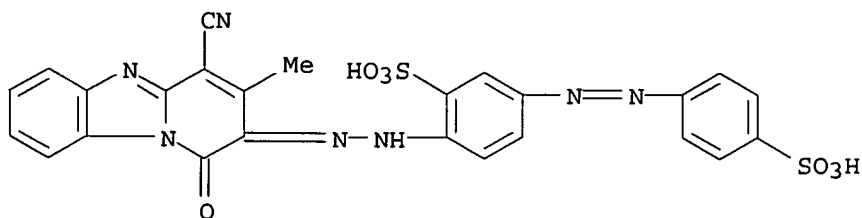
CRN 10549-76-5

CMF C16 H36 N



RN 704887-85-4 CAPLUS

CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]- (9CI) (CA INDEX NAME)

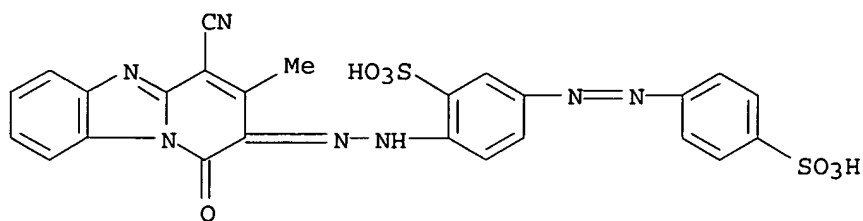


RN 704887-86-5 CAPLUS

CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]-, compd. with 1,3,4,6,7,8-hexahydro-2H-pyrimido[1,2-a]pyrimidine (1:2) (9CI) (CA INDEX NAME)

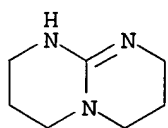
CM 1

CRN 704887-85-4
CMF C25 H17 N7 O7 S2



CM 2

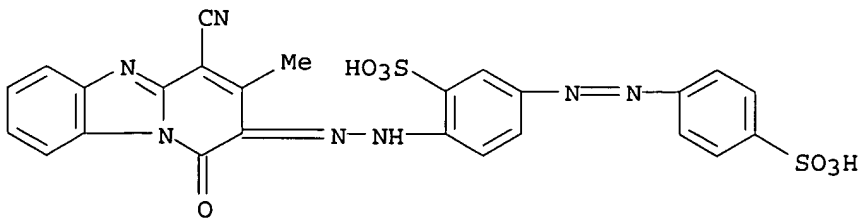
CRN 5807-14-7
CMF C7 H13 N3



RN 704887-87-6 CAPLUS
CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]-, compd. with N,N'-diphenylguanidine (1:2) (9CI) (CA INDEX NAME)

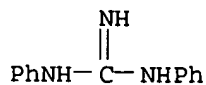
CM 1

CRN 704887-85-4
CMF C25 H17 N7 O7 S2



CM 2

CRN 102-06-7
CMF C13 H13 N3



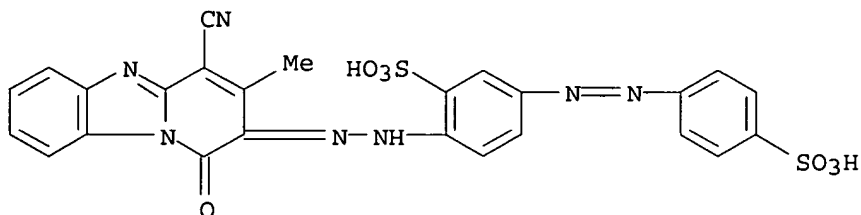
RN 704887-88-7 CAPLUS

CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]-, compd. with N''-(1,1-dimethylethyl)-N,N,N',N'-tetramethylguanidine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-85-4

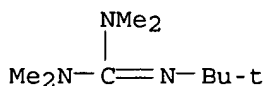
CMF C25 H17 N7 O7 S2



CM 2

CRN 29166-72-1

CMF C9 H21 N3



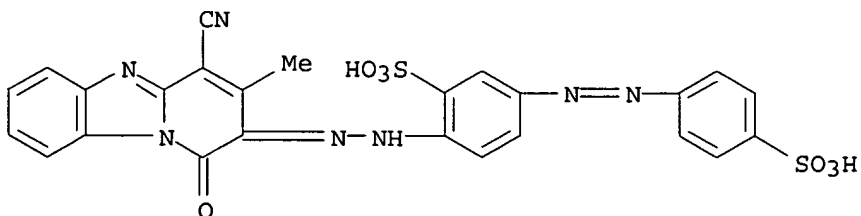
RN 704887-89-8 CAPLUS

CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]-, compd. with 2-ethyl-N-(2-ethylhexyl)-1-hexanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-85-4

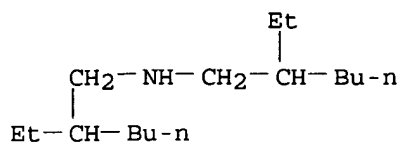
CMF C25 H17 N7 O7 S2



CM 2

CRN 106-20-7

CMF C16 H35 N



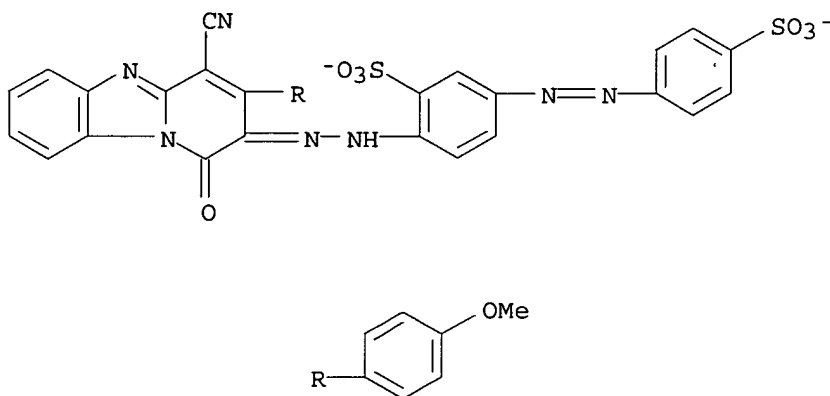
RN 704887-91-2 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 2-[[4-cyano-3-(4-methoxyphenyl)-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-5-[(4-sulfophenyl)azo]benzenesulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-90-1

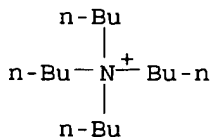
CMF C31 H19 N7 O8 S2



CM 2

CRN 10549-76-5

CMF C16 H36 N



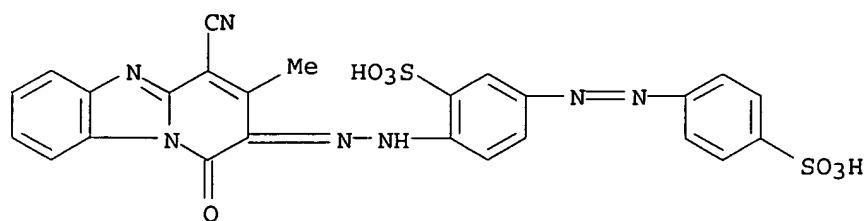
RN 704887-92-3 CAPLUS

CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]-, compd. with N,N,N',N'-tetramethylguanidine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-85-4

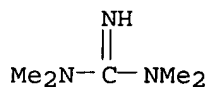
CMF C25 H17 N7 O7 S2



CM 2

CRN 80-70-6

CMF C5 H13 N3



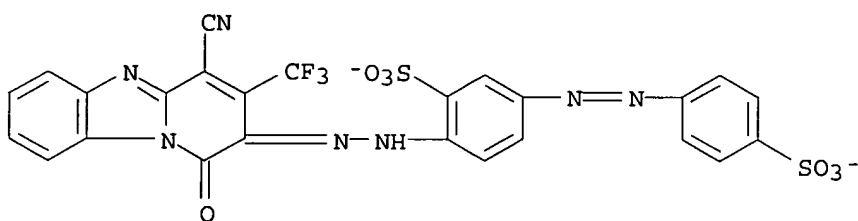
RN 704887-94-5 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 2-[[4-cyano-1-oxo-3-(trifluoromethyl)pyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-5-[(4-sulfophenyl)azo]benzenesulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-93-4

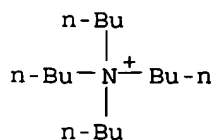
CMF C25 H12 F3 N7 O7 S2



CM 2

CRN 10549-76-5

CMF C16 H36 N



RN 704887-96-7 CAPLUS

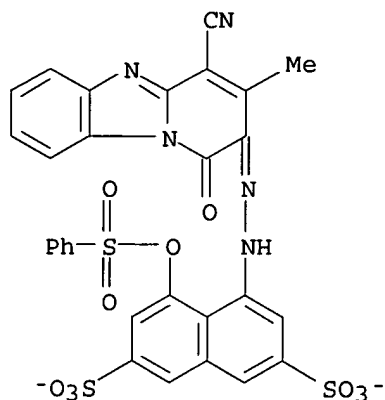
CN 1-Butanaminium, N,N,N-tributyl-, salt with 4-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(phenylsulfonyl)oxy]-2,7-naphthalenedisulfonic acid (2:1) (9CI) (CA

INDEX NAME)

CM 1

CRN 704887-95-6

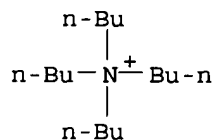
CMF C29 H17 N5 O10 S3



CM 2

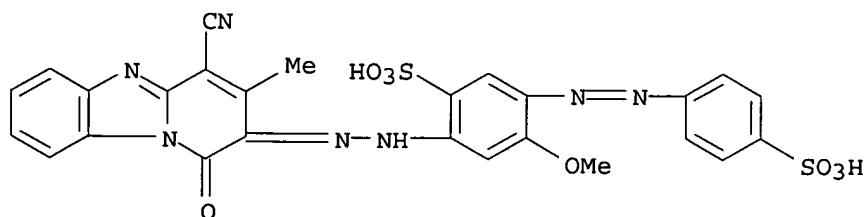
CRN 10549-76-5

CMF C16 H36 N



RN 704887-97-8 CAPLUS

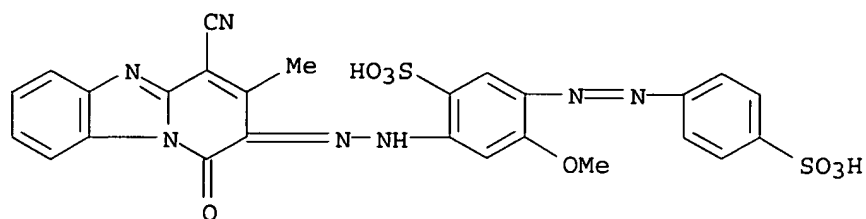
CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-4-methoxy-5-[(4-sulfophenyl)azo]-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

RN 704887-98-9 CAPLUS

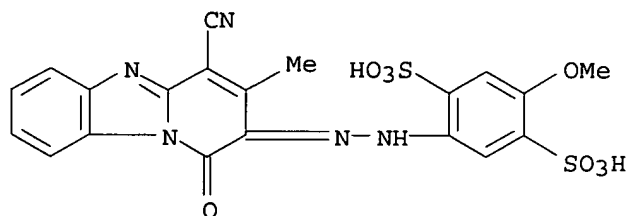
CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-4-methoxy-5-[(4-sulfophenyl)azo]-, potassium sodium salt (9CI) (CA INDEX NAME)



●x K

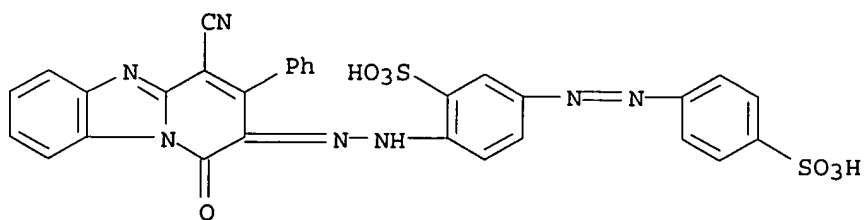
●x Na

RN 704887-99-0 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-methoxy-, disodium salt (9CI)
 (CA INDEX NAME)



●2 Na

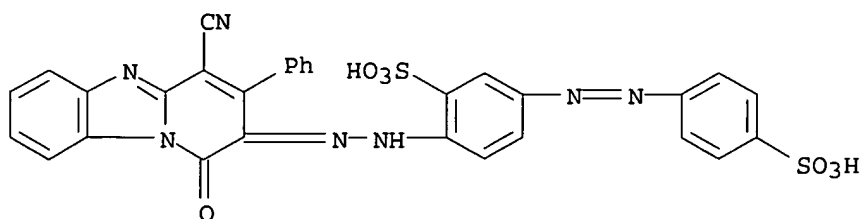
RN 704888-00-6 CAPLUS
 CN Benzenesulfonic acid, 2-[(4-cyano-1-oxo-3-phenylpyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 704888-01-7 CAPLUS
 CN Benzenesulfonic acid, 2-[(4-cyano-1-oxo-3-phenylpyrido[1,2-a]benzimidazol-

2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]-, potassium sodium salt
(9CI) (CA INDEX NAME)

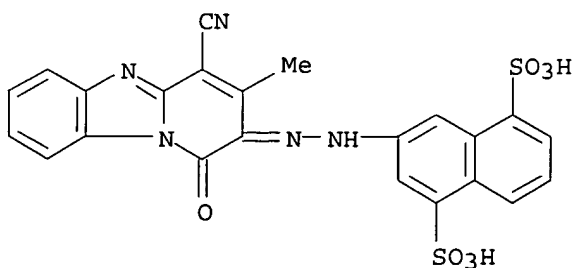


●x K

●x Na

RN 704888-02-8 CAPLUS

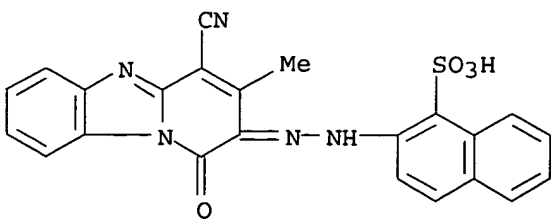
CN 1,5-Naphthalenedisulfonic acid, 3-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 704888-03-9 CAPLUS

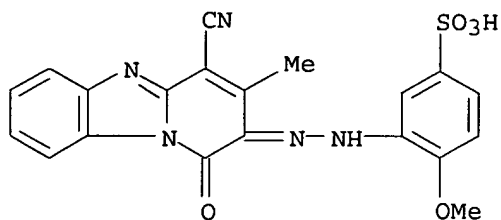
CN 1-Naphthalenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 704888-04-0 CAPLUS

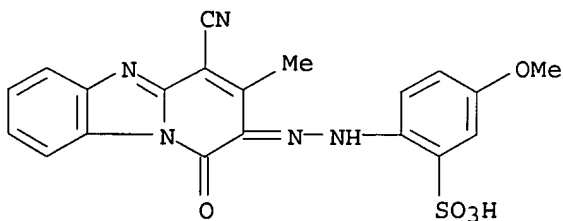
CN Benzenesulfonic acid, 3-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-4-methoxy-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 704888-05-1 CAPLUS

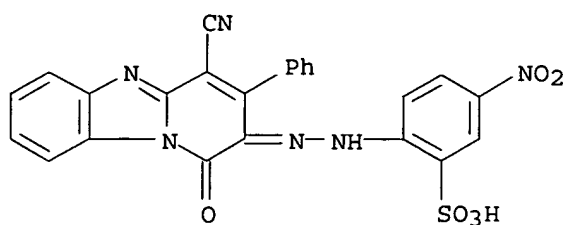
CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-methoxy-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 704888-07-3 CAPLUS

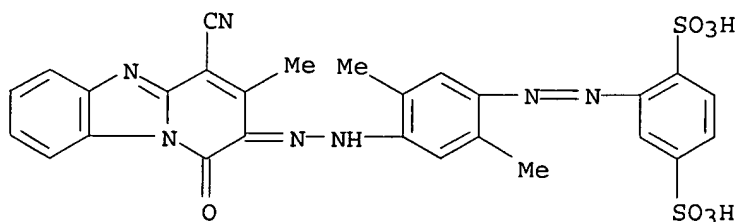
CN Benzenesulfonic acid, 2-[(4-cyano-1-oxo-3-phenylpyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-nitro-, potassium sodium salt (9CI) (CA INDEX NAME)



● x K

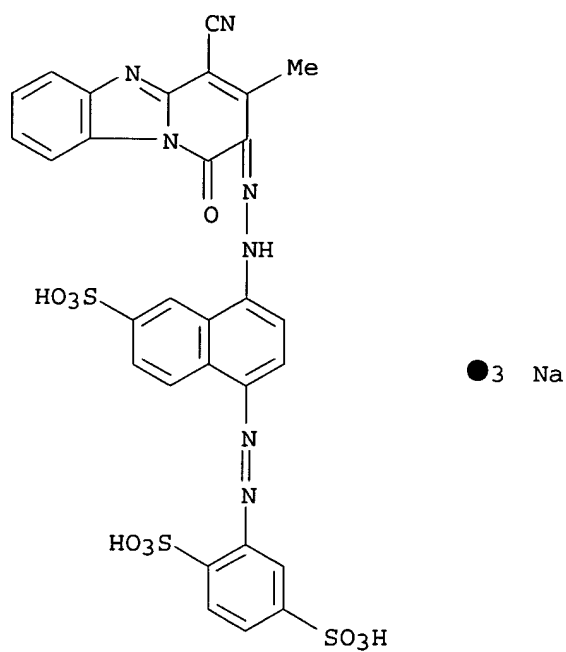
● x Na

RN 704888-08-4 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-[[4-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-2,5-dimethylphenyl]azo]-, disodium salt (9CI) (CA INDEX NAME)



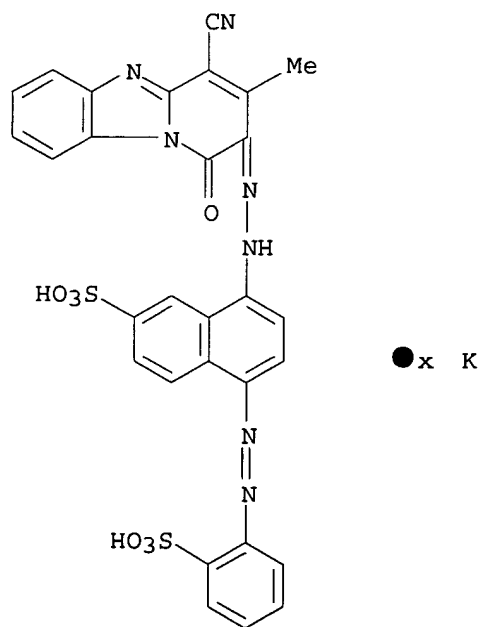
● 2 Na

RN 704888-09-5 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-[[4-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-6-sulfo-1-naphthalenyl]azo]-, trisodium salt (9CI) (CA INDEX NAME)



RN 704888-10-8 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(2-sulfo-phenyl)azo]-, potassium sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



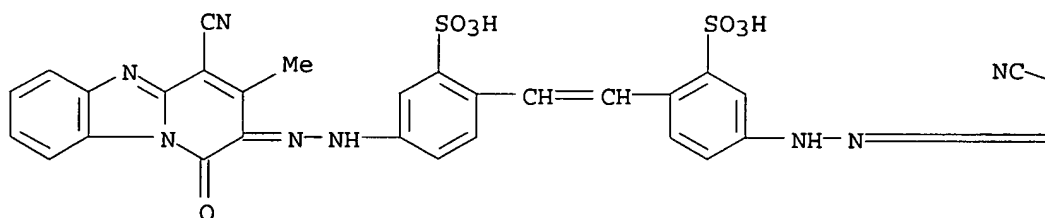
PAGE 2-A

●x Na

RN 704888-12-0 CAPLUS

CN Benzenesulfonic acid, 5-[(3-cyano-4-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-2-[2-[4-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-2-sulphophenyl]ethenyl]-, potassium sodium salt (9CI) (CA INDEX NAME)

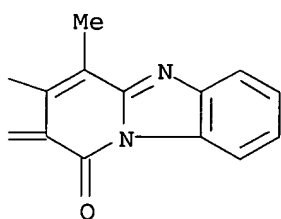
PAGE 1-A



●x K

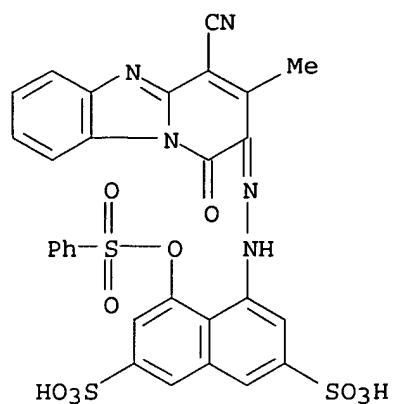
●x Na

PAGE 1-B



RN 704888-13-1 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(phenylsulfonyl)oxy]-, potassium sodium salt (9CI) (CA INDEX NAME)



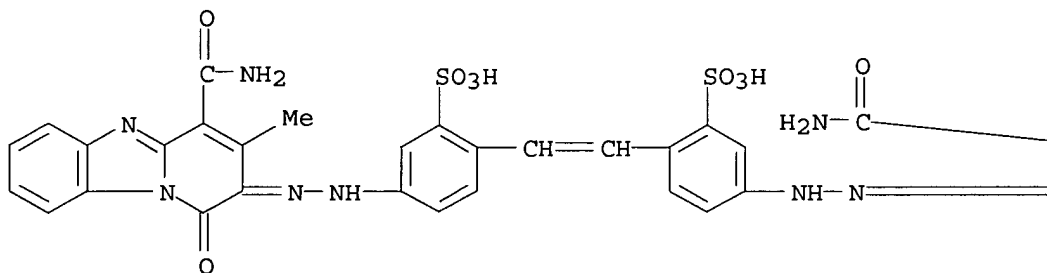
●x Na

●x K

RN 704888-14-2 CAPLUS

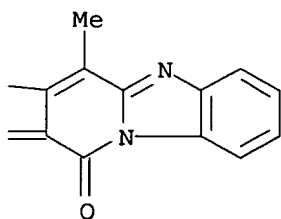
CN Benzenesulfonic acid, 5-[[3-(aminocarbonyl)-4-methyl-1-oxypyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-2-[2-[4-[[4-(aminocarbonyl)-3-methyl-1-oxypyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-2-sulfophenyl]ethenyl]-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



●2 Na

PAGE 1-B



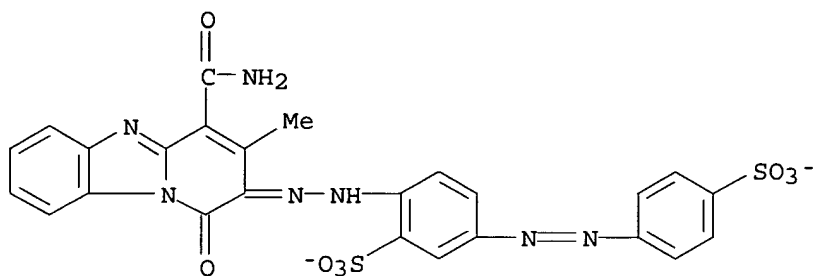
RN 704888-16-4 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 2-[[4-(aminocarbonyl)-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-5-[(4-sulfophenyl)azo]benzenesulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704888-15-3

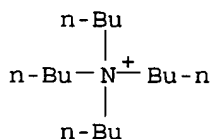
CMF C25 H17 N7 O8 S2



CM 2

CRN 10549-76-5

CMF C16 H36 N



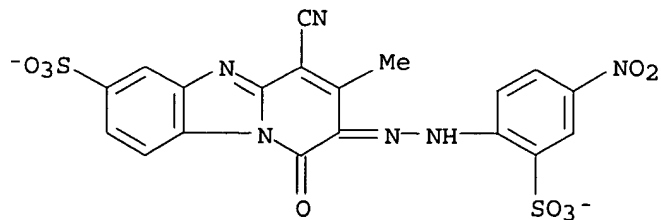
RN 704888-18-6 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 4-cyano-1,2-dihydro-3-methyl-2-[(4-nitro-2-sulfophenyl)hydrazono]-1-oxopyrido[1,2-a]benzimidazole-7-sulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704888-17-5

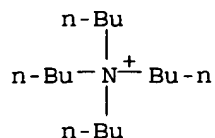
CMF C19 H10 N6 O9 S2



CM 2

CRN 10549-76-5

CMF C16 H36 N



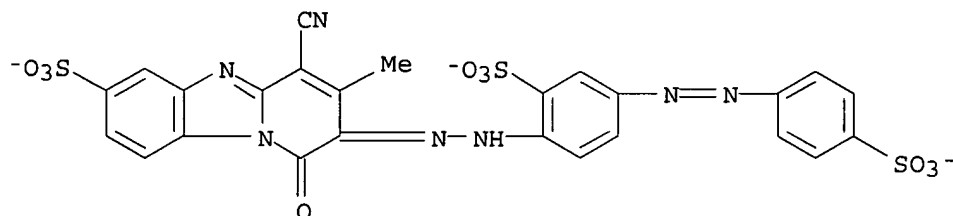
RN 704888-20-0 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 4-cyano-1,2-dihydro-3-methyl-1-oxo-2-[[2-sulfo-4-[(4-sulfophenyl)azo]phenyl]hydrazono]pyrido[1,2-a]benzimidazole-7-sulfonic acid (3:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704888-19-7

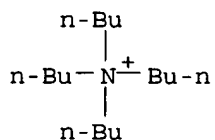
CMF C25 H14 N7 O10 S3



CM 2

CRN 10549-76-5

CMF C16 H36 N



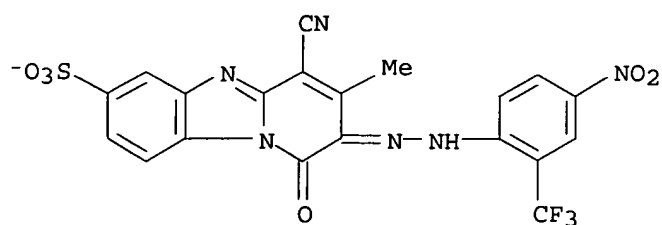
RN 704888-22-2 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 4-cyano-1,2-dihydro-3-methyl-2-[[4-nitro-2-(trifluoromethyl)phenyl]hydrazono]-1-oxopyrido[1,2-a]benzimidazole-7-sulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704888-21-1

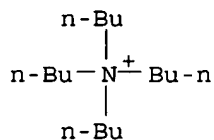
CMF C20 H10 F3 N6 O6 S



CM 2

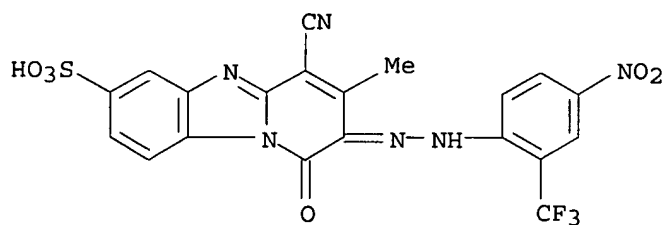
CRN 10549-76-5

CMF C16 H36 N



RN 704888-23-3 CAPLUS

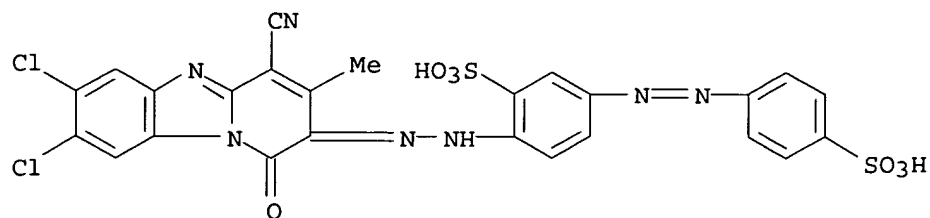
CN Pyrido[1,2-a]benzimidazole-7-sulfonic acid, 4-cyano-1,2-dihydro-3-methyl-2-
[[4-nitro-2-(trifluoromethyl)phenyl]hydrazono]-1-oxo-, monopotassium salt
(9CI) (CA INDEX NAME)



● K

RN 704888-24-4 CAPLUS

CN Benzenesulfonic acid, 2-[(7,8-dichloro-4-cyano-3-methyl-1-oxopyrido[1,2-
a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]-, disodium
salt (9CI) (CA INDEX NAME)



● 2 Na

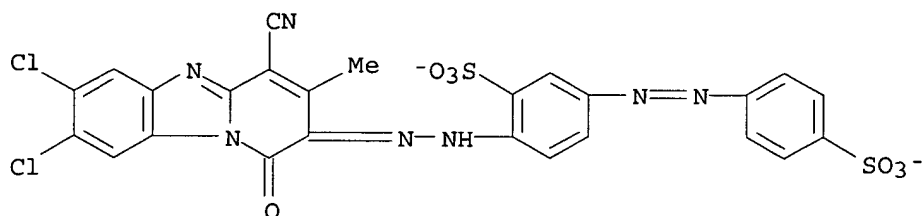
RN 704888-26-6 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 2-[(7,8-dichloro-4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]benzenesulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704888-25-5

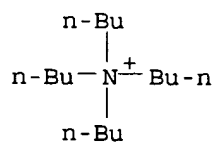
CMF C25 H13 Cl2 N7 O7 S2



CM 2

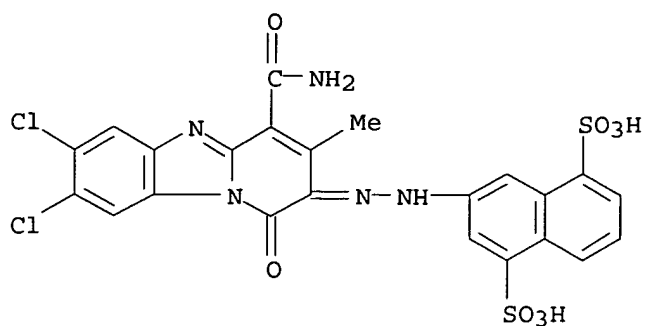
CRN 10549-76-5

CMF C16 H36 N



RN 704888-27-7 CAPLUS

CN 1,5-Naphthalenedisulfonic acid, 3-[[4-(aminocarbonyl)-7,8-dichloro-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

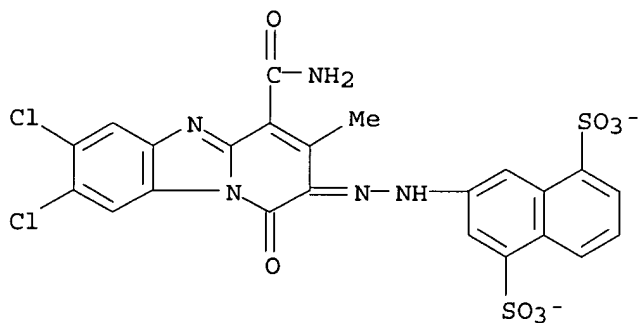
RN 704888-29-9 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 3-[[4-(aminocarbonyl)-7,8-dichloro-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-1,5-naphthalenedisulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704888-28-8

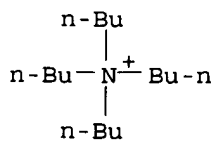
CMF C23 H13 Cl2 N5 O8 S2



CM 2

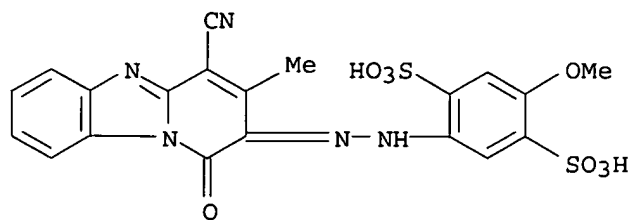
CRN 10549-76-5

CMF C16 H36 N



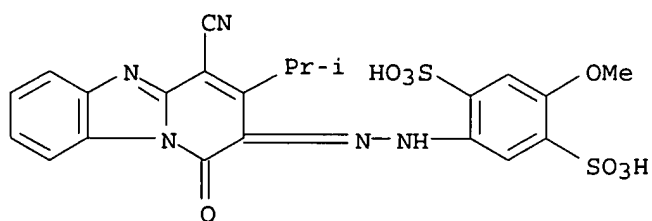
RN 704916-76-7 CAPLUS

CN 1,4-Benzenedisulfonic acid, 2-[[4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-5-methoxy- (9CI) (CA INDEX NAME)



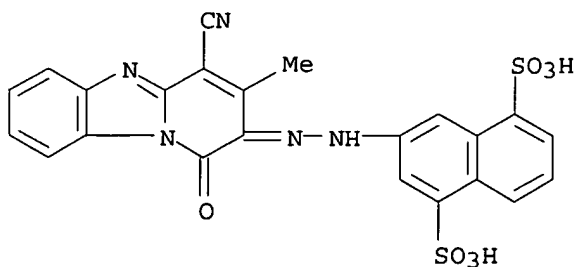
RN 704916-77-8 CAPLUS

CN 1,4-Benzenedisulfonic acid, 2-[[4-cyano-3-(1-methylethyl)-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-5-methoxy- (9CI) (CA INDEX NAME)



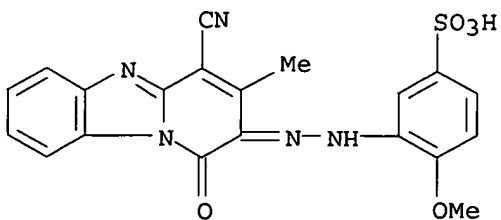
RN 704916-78-9 CAPLUS

CN 1,5-Naphthalenedisulfonic acid, 3-[[4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]- (9CI) (CA INDEX NAME)



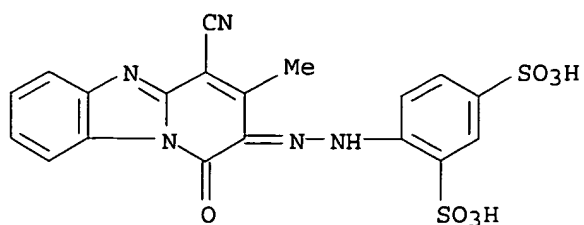
RN 704916-79-0 CAPLUS

CN Benzenesulfonic acid, 3-[[4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-4-methoxy- (9CI) (CA INDEX NAME)



RN 704916-80-3 CAPLUS

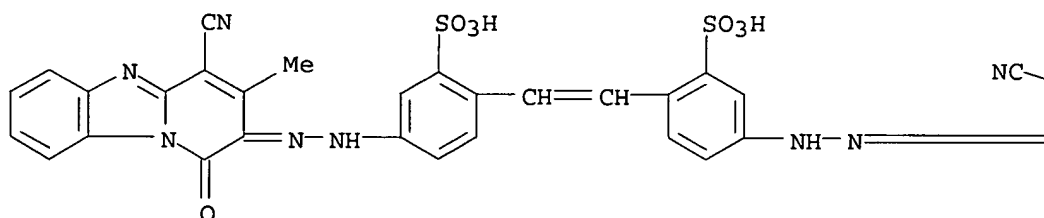
CN 1,3-Benzenedisulfonic acid, 4-[[4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]- (9CI) (CA INDEX NAME)



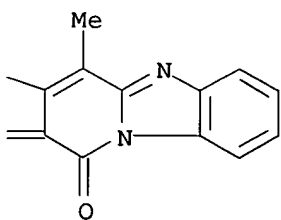
RN 704916-81-4 CAPLUS

CN Benzenesulfonic acid, 5-[(3-cyano-4-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-2-[2-[4-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-2-sulfophenyl]ethenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



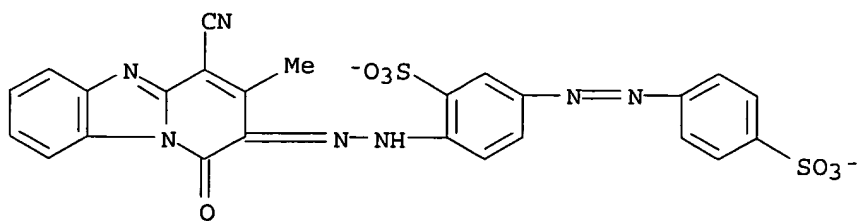
RN 704916-82-5 CAPLUS

CN Sodium(1+), (1,4,7,10,13,16-hexaoxacyclooctadecane-κO1,κO4,κO7,κO10,κO13,κO16)-, (OC-6-11)-, salt with 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]benzenesulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-60-5

CMF C25 H15 N7 O7 S2

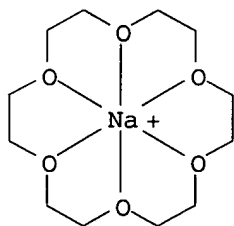


CM 2

CRN 31270-12-9

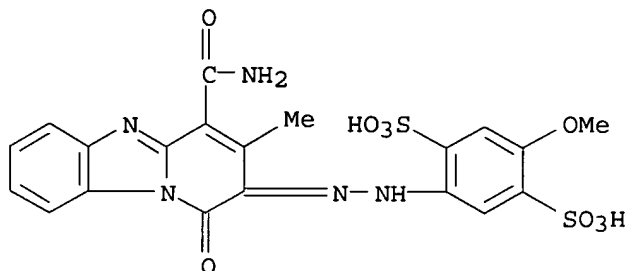
CMF C12 H24 Na O6

CCI CCS



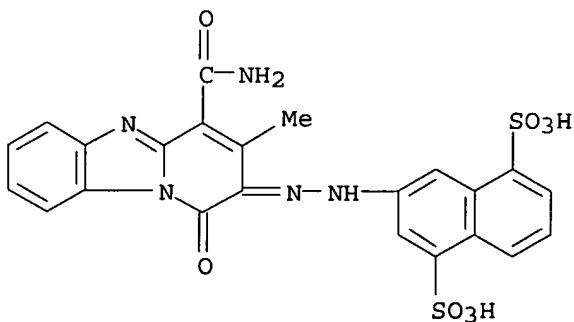
RN 704916-83-6 CAPLUS

CN 1,4-Benzenedisulfonic acid, 2-[[4-(aminocarbonyl)-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]-5-methoxy- (9CI) (CA INDEX NAME)



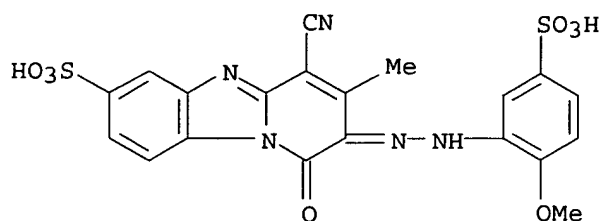
RN 704916-84-7 CAPLUS

CN 1,5-Naphthalenedisulfonic acid, 3-[[4-(aminocarbonyl)-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene]hydrazino]- (9CI) (CA INDEX NAME)



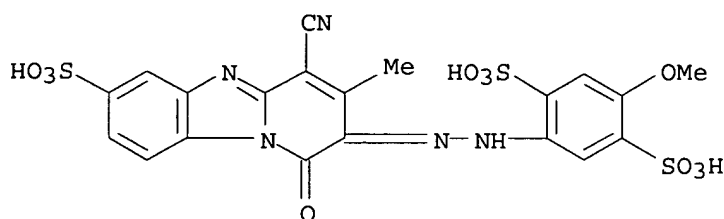
RN 704916-85-8 CAPLUS

CN Pyrido[1,2-a]benzimidazole-7-sulfonic acid, 4-cyano-1,2-dihydro-2-[(2-methoxy-5-sulfophenyl)hydrazono]-3-methyl-1-oxo- (9CI) (CA INDEX NAME)



RN 704916-86-9 CAPLUS

CN 1,4-Benzenedisulfonic acid, 2-[(4-cyano-3-methyl-1-oxo-7-sulfopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-methoxy- (9CI) (CA INDEX NAME)



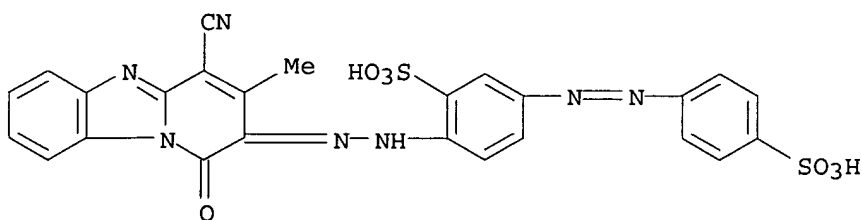
IT 704887-58-1P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(preparation of benzimidazole-pyridone-based azo dyes soluble in organic solvents)

RN 704887-58-1 CAPLUS

CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

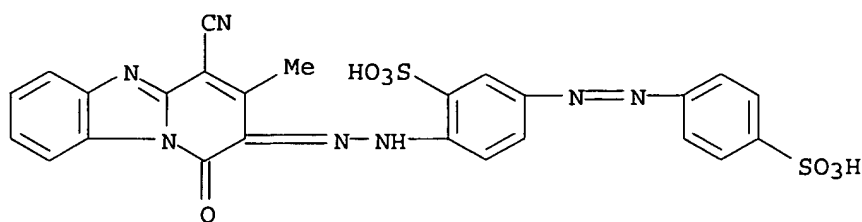
IT 704887-59-2P

RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of benzimidazole-pyridone-based azo dyes soluble in organic solvents)

RN 704887-59-2 CAPLUS

CN Benzenesulfonic acid, 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]-, potassium sodium salt (9CI) (CA INDEX NAME)



●x K

●x Na

IT 704887-61-6P 704887-64-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of benzimidazole-pyridone-based azo dyes soluble in organic solvents)

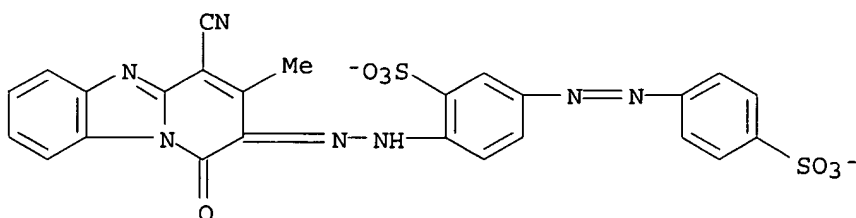
RN 704887-61-6 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with 2-[(4-cyano-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2(1H)-ylidene)hydrazino]-5-[(4-sulfophenyl)azo]benzenesulfonic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-60-5

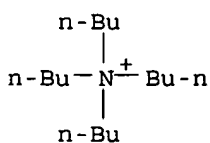
CMF C25 H15 N7 O7 S2



CM 2

CRN 10549-76-5

CMF C16 H36 N



RN 704887-64-9 CAPLUS

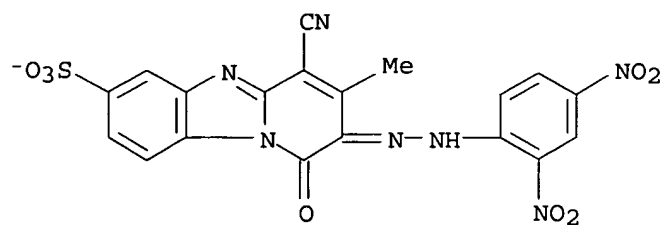
CN 1-Butanaminium, N,N,N-tributyl-, salt with 4-cyano-2-[(2,4-dinitrophenyl)hydrazono]-1,2-dihydro-3-methyl-1-oxopyrido[1,2-

a]benzimidazole-7-sulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 704887-63-8

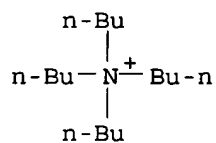
CMF C19 H10 N7 O8 S



CM 2

CRN 10549-76-5

CMF C16 H36 N



L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:634002 CAPLUS
 DN 139:181533
 TI Colored aluminum oxide layers and their production
 IN Schacht, Hans-thomas; Moegle, Gilbert; Bauer, Didier; Feiler, Leonhard;
 Wallquist, Olof; Mueller, Martin
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003066938	A2	20030814	WO 2003-EP817	20030128
	WO 2003066938	A3	20040729		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				
	PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,				
	UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
	KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				
	FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003205687	A1	20030902	AU 2003-205687	20030128
	EP 1501965	A2	20050202	EP 2003-702541	20030128
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2005517090	T2	20050609	JP 2003-566277	20030128
	US 2005155162	A1	20050721	US 2003-503152	20030128
PRAI	EP 2002-405083	A	20020206		
	EP 2002-405237	A	20020326		
	WO 2003-EP817	W	20030128		

OS MARPAT 139:181533

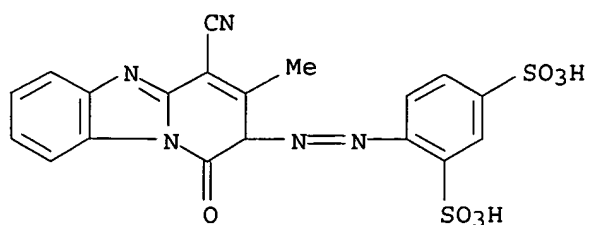
AB The present invention relates to a process for producing colored oxide layers on aluminum or on aluminum alloys by dyeing in an aqueous dye bath, rinsing with water, and sealing. Employed is at least one dye [X1O3S]mA[SO2N(X2)]nB (m, n = 1-4; m + n = ≤8; A = chromophore; B = H, organic. group; X1, X2 = H, cation). The dyeings obtainable according to the process of the invention have surprisingly high light-fastness properties. In an example, disodium 4,4'-diamino-1,1'-bisanthraquinone-3,3'-disulfonate was heated with ethanolamine to provide a dark red ethanolanmonium dye. The dye was used on anodically oxidized pure Al sheet.

IT 578727-18-1D, Primene 81R salts 578727-19-2
 578727-20-5

RL: TEM (Technical or engineered material use); USES (Uses)
 (dye; dyes for colored anodized aluminum oxide layers)

RN 578727-18-1 CAPLUS

CN 1,3-Benzenedisulfonic acid, 4-[(4-cyano-1,2-dihydro-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2-yl)azo]- (9CI) (CA INDEX NAME)



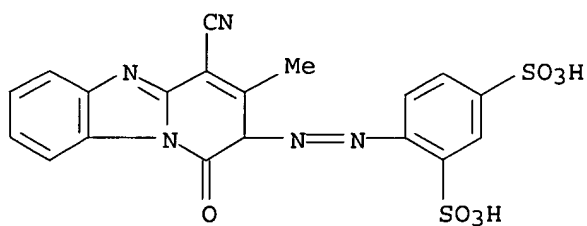
RN 578727-19-2 CAPLUS

CN 1,3-Benzenedisulfonic acid, 4-[(4-cyano-1,2-dihydro-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2-yl)azo]-, compd. with 2-aminoethanol (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 578727-18-1

CMF C19 H13 N5 O7 S2



CM 2

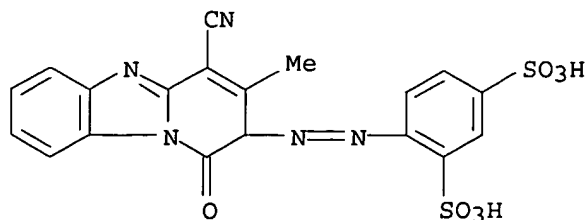
CRN 141-43-5

CMF C2 H7 N O

$\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{OH}$

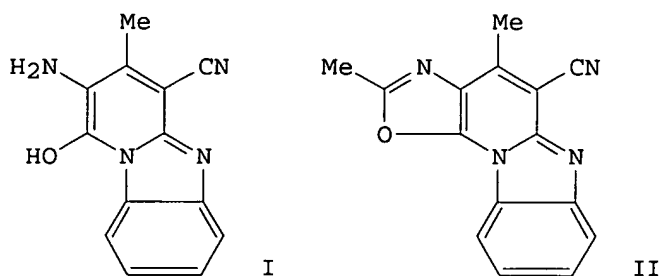
RN 578727-20-5 CAPLUS

CN 1,3-Benzenedisulfonic acid, 4-[(4-cyano-1,2-dihydro-3-methyl-1-oxopyrido[1,2-a]benzimidazol-2-yl)azo]-, diammonium salt (9CI) (CA INDEX NAME)



● 2 NH_3

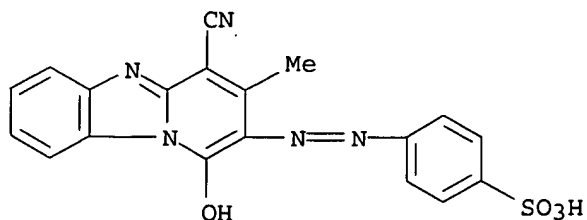
L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1986:574390 CAPLUS
 DN 105:174390
 TI Synthesis of oxazolo[4',5':5,6]pyrido[1,2-a]benzimidazole derivatives and study of their fluorescent properties
 AU Rangnekar, D. W.; Rajadhyaksha, D. D.
 CS Dep. Chem. Technol., Univ. Bombay, Bombay, 400 019, India
 SO Dyes and Pigments (1986), 7(5), 365-72
 CODEN: DYPIDX; ISSN: 0143-7208
 DT Journal
 LA English
 GI



AB 2-Amino-3-methyl-1-hydroxypyrido[1,2-a]benzimidazole-4-carbonitrile (I) [104751-37-3], the key compound in the synthesis of oxazolo[4',5':5,6]pyrido[1,2-a]benzimidazole derivs., was prepared by reduction of the azo dye [104751-30-6] obtained from phenyldiazonium-4-sulfonic acid salt [305-80-6], coupled with 3-methyl-1-hydroxypyrido[1,2-a]benzimidazole-4-carbonitrile [34940-35-7]. The condensation of I with Ac2O yielded 2,4-dimethyloxazolo[4',5':5,6]pyrido[1,2-a]benzimidazole-5-carbonitrile (II) [104751-38-4] and condensation of I with EtOBz [93-89-0] and Et 4-methoxybenzoate [94-30-4] in polyphosphoric acid afforded the corresponding 2-phenyl- [104751-28-2] and 2-(p-methoxyphenyl)-4-methyloxazolo[4',5':5,6]pyrido[1,2-a]benzimidazole-5-carbonitrile [104751-29-3]. Similar condensations were conducted using fumaric acid [110-17-8] and di-Et terephthalate [636-09-9]. Some of the compds. were evaluated as fluorescent brighteners for polyester fibers.

IT 104751-30-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reduction of)

RN 104751-30-6 CAPLUS
 CN Benzenesulfonic acid, 4-[(4-cyano-1-hydroxy-3-methylpyrido[1,2-a]benzimidazol-2-yl)azo]- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1971:530767 CAPLUS

DN 75:130767

TI Water-soluble azo dyes for nylon 6

IN Lamm, Gunther; Dehnert, Johannes

PA Badische Anilin- & Soda-Fabrik AG

SO Ger. Offen., 34 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	DE 2004488	A	19710805	DE 1970-2004488	19700131
PRAI	DE 1970-2004488		19700131		

GI For diagram(s), see printed CA Issue.

AB Water-soluble dyes of general formula I (R = aromatic or heterocyclic group; R₁ = Me, Ph; X = CN, CONH₂), dyeing nylon 5 red shades, were prepared by coupling di- or tetrazotized R(NH₂)₁₋₂ with 1-hydroxypyrido[1,2- α]benzimidazoles. Thus, diazotized 2-nitro-4-chloroaniline was coupled with II to give Na 2-(4-chloro-2-nitrophenylazo)-1-hydroxy-3-methyl-4-carbamoylpyrido[1,2- α]benzimidazolesulfonate. Similarly prepared were 4 other I.

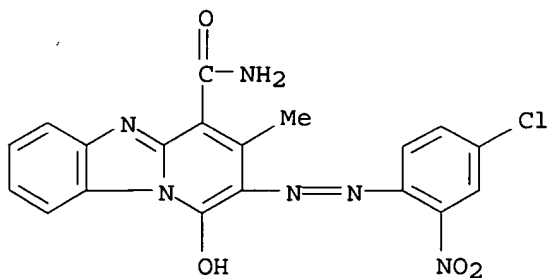
IT 32826-22-5P 34109-20-1P 34109-21-2P

34150-50-0P 34150-51-1P 34205-79-3P

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 32826-22-5 CAPLUS

CN Pyrido[1,2- α]benzimidazolesulfonic acid, 4-carbamoyl-2-[(4-chloro-2-nitrophenyl)azo]-1-hydroxy-3-methyl-, monosodium salt (8CI) (CA INDEX NAME)

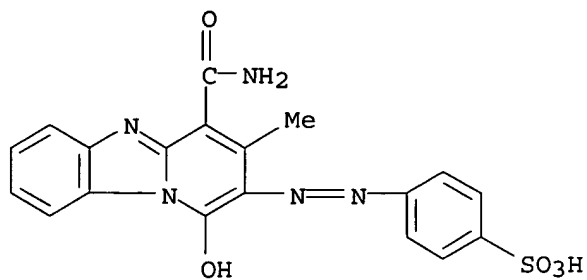


D1-SO₃H

● Na

RN 34109-20-1 CAPLUS

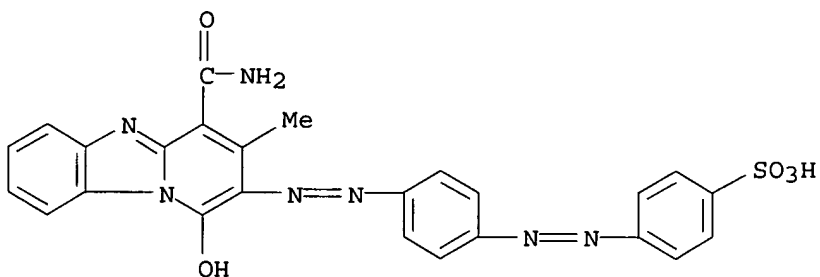
CN Benzenesulfonic acid, p-[(4-carbamoyl-1-hydroxy-3-methylpyrido[1,2- α]benzimidazol-2-yl)azo]-, monosodium salt (8CI) (CA INDEX NAME)



● Na

RN 34109-21-2 CAPLUS

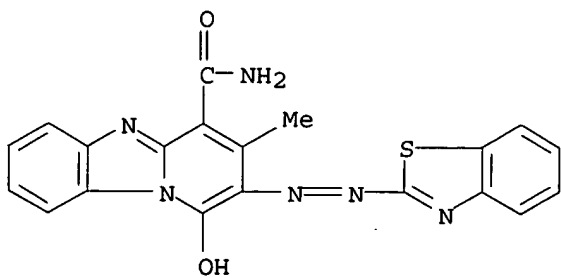
CN Benzenesulfonic acid, p-[[p-[(4-carbamoyl-1-hydroxy-3-methylpyrido[1,2-a]benzimidazol-2-yl)azo]phenyl]azo]-, monosodium salt (8CI) (CA INDEX NAME)



● Na

RN 34150-50-0 CAPLUS

CN Pyrido[1,2-a]benzimidazolesulfonic acid, 2-(2-benzothiazolylazo)-4-carbamoyl-1-hydroxy-3-methyl-, monosodium salt (8CI) (CA INDEX NAME)

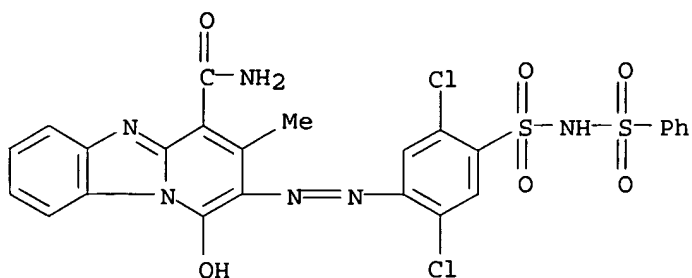


D1-SO₃H

● Na

RN 34150-51-1 CAPLUS

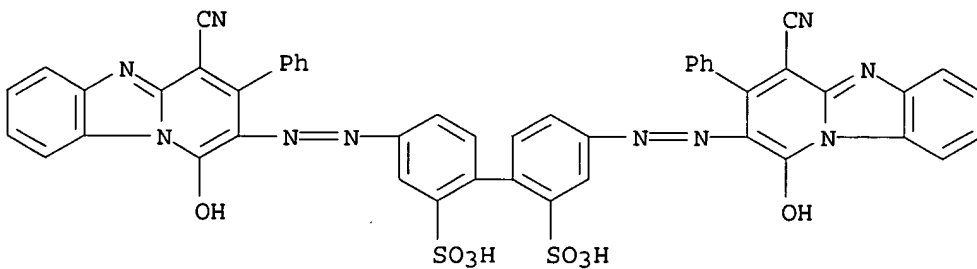
CN Pyrido[1,2-a]benzimidazolesulfonic acid, 4-carbamoyl-2-[[2,5-dichloro-4-[(phenylsulfonyl)sulfamoyl]phenyl]azo]-1-hydroxy-3-methyl-, monosodium salt (8CI) (CA INDEX NAME)

D1-SO₃H

● Na

RN 34205-79-3 CAPLUS

CN 2,2'-Biphenyldisulfonic acid, 4,4'-bis[(4-cyano-1-hydroxy-3-phenylpyrido[1,2-a]benzimidazol-2-yl)azo]-, disodium salt (8CI) (CA INDEX NAME)



●2 Na

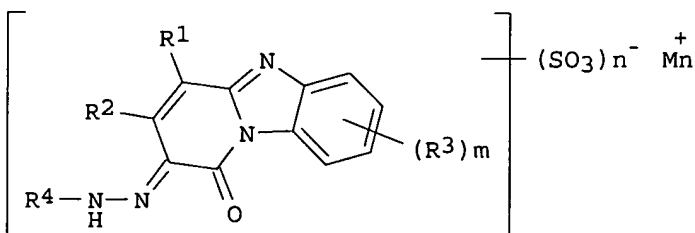
=> => d que l10 stat

L5	16	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"FEILER LEONHARD"/AU
L6	1	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"RAIMANN THOMAS"/AU
L7	16	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"EICHENBERGER THOMAS"/AU
L8	2	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"HUGIN MAX"/AU
L9	31	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L5 OR L6 OR L7 OR L8
L10	4	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L9 AND AZO

=> d 1-4 bib abs

L10 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:493793 CAPLUS
 DN 141:55761
 TI Benzimidazole-pyridone-based azo dyes soluble in organic solvents
 IN Feiler, Leonhard; Raimann, Thomas; Eichenberger, Thomas; Huegin, Max
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004050768	A2	20040617	WO 2003-EP50898	20031126
	WO 2004050768	A3	20040812		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2505613	AA	20040617	CA 2003-2505613	20031126
	AU 2003298325	A1	20040623	AU 2003-298325	20031126
	EP 1570004	A2	20050907	EP 2003-796059	20031126
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003016989	A	20051025	BR 2003-16989	20031126
	CN 1720298	A	20060111	CN 2003-80105071	20031126
	JP 2006509068	T2	20060316	JP 2004-556335	20031126
	US 2006053571	A1	20060316	US 2005-537063	20050601
PRAI	CH 2002-2058	A	20021205		
	WO 2003-EP50898	W	20031126		
OS	MARPAT 141:55761				
GI					



I

AB The azo dyes I (R1 = -CN, -COOR5, -CONR6R7, heterocyclic ring; R2 = (un)substituted alkyl, (un)substituted aryl, -CF3, -COOR5, -CONR6R7, -COR5; R3 = H, -SO3M, alkyl, alkoxy, alkylcarbonyl, -NO2, halogen; R4 = substituted aryl, substituted heteroaryl, aryl-N:N-aryl radical, heteroaryl-N:N-heteroaryl radical; R5 = H, alkyl, (un)substituted aryl; R6, R7 = H, alkyl, (un)substituted aryl; M+ = cation; m, n = 1, 2 or 3) are soluble in organic solvents and useful in production of colored plastics or polymeric color particles, and as printing inks, printing dyes, coating compns. and wood stains.

L10 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:634002 CAPLUS

DN 139:181533

TI Colored aluminum oxide layers and their production

IN Schacht, Hans-thomas; Moegle, Gilbert; Bauer, Didier; Feiler, Leonhard; Wallquist, Olof; Mueller, Martin

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003066938	A2	20030814	WO 2003-EP817	20030128
	WO 2003066938	A3	20040729		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003205687	A1	20030902	AU 2003-205687	20030128
	EP 1501965	A2	20050202	EP 2003-702541	20030128
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2005517090	T2	20050609	JP 2003-566277	20030128
	US 2005155162	A1	20050721	US 2003-503152	20030128
PRAI	EP 2002-405083	A	20020206		
	EP 2002-405237	A	20020326		
	WO 2003-EP817	W	20030128		

OS MARPAT 139:181533

AB The present invention relates to a process for producing colored oxide layers on aluminum or on aluminum alloys by dyeing in an aqueous dye bath, rinsing with water, and sealing. Employed is at least one dye [X1O3S]mA[SO2N(X2)]nB (m, n = 1-4; m + n = ≤8; A = chromophore; B = H, organic. group; X1, X2 = H, cation). The dyeings obtainable according to the process of the invention have surprisingly high light-fastness properties. In an example, disodium 4,4'-diamino-1,1'-bisanthraquinone-3,3'-disulfonate was heated with ethanolamine to provide a dark red ethanolanmonium dye. The dye was used on anodically oxidized pure Al sheet.

L10 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1993:474599 CAPLUS

DN 119:74599

TI Dyes, their preparation and use, and sulfoxobutyramide intermediates

IN Adam, Jean Marie; Eichenberger, Thomas

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 18 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	EP 527704	A2	19930217	EP 1992-810585	19920731
	EP 527704	A3	19930825		
	EP 527704	B1	19960828		
	R: BE, CH, DE, ES, FR, GB, IT, LI				
	ES 2092080	T3	19961116	ES 1992-810585	19920731
	US 5302704	A	19940412	US 1992-924140	19920803
	JP 05202306	A2	19930810	JP 1992-227855	19920805
PRAI	CH 1991-2344	A	19910808		

OS MARPAT 119:74599

AB The dyes, R₁R₂NCOC(:NNHR₃)COCH₂SO₃H (R₁ = H, C₁-4-alkyl; R₂ = optionally substituted Ph; R₃ = diazo component residue), are obtained for use on polyamide fibers, paper, and leather. Thus, diketene was chlorinated and condensed with p-anisidine, and the product was heated with Na₂SO₃ to give p-MeOC₆H₄NHCOCH₂COCH₂SO₃H (I). I was coupled with diazotized 4-aminoazobenzene to give a product which dyed nylon 66 and wool fibers yellow.

L10 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1993:61519 CAPLUS

DN 118:61519

TI Azo dyes, their preparation and use

IN Adam, Jean Marie; Eichenberger, Thomas

PA Ciba-Geigy A.-G., Switz.

SO Ger. Offen., 10 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 4208535	A1	19920924	DE 1992-4208535	19920317
	CH 681806	A	19930528	CH 1991-843	19910319
PRAI	CH 1991-843	A	19910319		

OS MARPAT 118:61519

GI For diagram(s), see printed CA Issue.

AB The title dyes (I; R1 = H, organic group; R2, R3 = H, optionally substituted C1-6-alkyl or phenyl; E = N, C; X = O, S, imino; Z = N, CH; Y1, Y2 = O, NH, iminoalkyl; M = H, alkali metal, ammonium; ring A carbocyclic or N-containing ring; ring B is optionally substituted) are obtained for use with paper and other substrates. Thus, 2-(4-aminophenyl)-6-methyl-7-benzothiazolesulfonic acid was diazotized and coupled with 3-amino-5-imino-2H-1,2,6-thiadiazine 1,1-dioxide to give yellow orange dye for paper.

=> d his full

(FILE 'HOME' ENTERED AT 10:43:58 ON 13 SEP 2006)

FILE 'REGISTRY' ENTERED AT 10:44:09 ON 13 SEP 2006

L1 STRUCTURE UPLOADED
 D

L2 2 SEA SSS SAM L1
 D SCAN

L3 109 SEA SSS FUL L1

FILE 'CAPLUS' ENTERED AT 10:45:18 ON 13 SEP 2006

L4 4 SEA ABB=ON PLU=ON L3
 D QUE L4 STAT

 D 1-4 BIB ABS HITSTR

 E FEILER LEONHARD/AU

L5 16 SEA ABB=ON PLU=ON "FEILER LEONHARD"/AU
 E RAIMANN THOMAS/AU

L6 1 SEA ABB=ON PLU=ON "RAIMANN THOMAS"/AU
 E EICHENBERGER THOMAS/AU

L7 16 SEA ABB=ON PLU=ON "EICHENBERGER THOMAS"/AU
 E HUGIN MAX/AU

L8 2 SEA ABB=ON PLU=ON "HUGIN MAX"/AU

L9 31 SEA ABB=ON PLU=ON L5 OR L6 OR L7 OR L8

L10 4 SEA ABB=ON PLU=ON L9 AND AZO

 D QUE L10 STAT

 D 1-4 BIB ABS

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 12 SEP 2006 HIGHEST RN 906508-44-9

DICTIONARY FILE UPDATES: 12 SEP 2006 HIGHEST RN 906508-44-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE CAPLUS

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
American Chemical Society and is provided to assist you in searching
databases on STN. Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is

strictly prohibited.

FILE COVERS 1907 - 13 Sep 2006 VOL 145 ISS 12
FILE LAST UPDATED: 12 Sep 2006 (20060912/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

44.37

211.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-6.00

-6.00

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:49:25 ON 13 SEP 2006